

RIVERSIDE MEDICAL OFFICE BUILDING - PROJECT SPECIFICATIONS

PROJECT: Riverside Medical Office Building, 4 stories, 120,000 SF

SPECIFICATION SECTIONS INCLUDED IN THIS SUBMITTAL PACKAGE:

01 33 00 - Submittal Procedures

23 05 00 - HVAC

26 05 00 - Electrical

08 80 00 - Glazing

All products shall be as specified. Substitutions require prior written approval.

Vendor submittals are reviewed against the requirements in these sections.

SECTION 01 33 00 - SUBMITTAL PROCEDURES

1.1 SUBMITTALS REQUIRED

Submit product data, shop drawings, and test reports for all specified equipment.

Product data shall identify the exact model, size, capacity, and ratings offered.

Certifications and test reports shall be current and shall match the product offered.

1.2 REVIEW PROCESS

The reviewer checks each submittal against the specification section that governs it.

Each review returns one of: APPROVED, APPROVED AS NOTED, or REVISE AND RESUBMIT.

Missing submittal items are treated as non-conforming and returned for resubmittal.

SECTION 23 05 00 - HVAC, PART 1 GENERAL AND 2.01 AHU

PART 1 - GENERAL

1.1 RELATED SECTIONS: 08 80 00 Glazing, 26 05 00 Electrical.

1.2 SUBMITTALS: Product data, fan curves, coil schedule, and sound test report.

PART 2 - PRODUCTS

2.01 AIR HANDLING UNIT AHU-1

Base of design: Atlas Air model AHU-5000, or approved equal.

Supply air quantity: 12,000 CFM.

Supply fan: 30 HP, belt driven, variable frequency drive included.

Motor: 480V/3ph/60Hz, open drip proof.

Motor efficiency: NEMA Premium (IE3).

Coil: chilled water, 6 row, 8 fins per inch.

Filters: 2 inch MERV 8 prefilters, 12 inch MERV 13 final filters.

The offered unit shall meet or exceed every value above.

SECTION 23 05 00 - HVAC, PART 2: AHU ACOUSTICS AND CHILLER

2.02 AHU-1 ACOUSTICS

Sound data shall be provided per ARI 260 for all operating points.

Submit complete sound test report with the AHU submittal.

2.03 CHILLER CH-1

Type: air-cooled scroll chiller.

Capacity: 240 tons.

Efficiency: IPLV shall not exceed 0.55 kW/ton.

Refrigerant: R-410A.

Electrical: 480V/3ph/60Hz.

The chiller shall include a factory mounted non-fused disconnect.

SECTION 23 05 00 - HVAC, PART 2: FIRE DAMPERS AND PART 3

2.04 FIRE DAMPERS

All fire dampers shall be UL 555 listed.

Fire damper rating: 1.5 hours.

Submit product data and UL listing for all fire dampers with the submittal.

Damper blades shall be 16 gage galvanized steel minimum.

PART 3 - EXECUTION

3.1 INSTALLATION

Install equipment in accordance with manufacturer instructions.

Provide access doors at all coil sections and filters.

Test and balance all air systems per AABC procedures.

SECTION 23 05 00 - HVAC, COILS AND CONTROLS

2.05 COILS

Coils: chilled water, 6 row, 8 fins per inch.

2.06 CONTROLS

Controls: DDC controls with BACnet interface.

2.07 CASING

Casing: double wall with 2 inch insulation.

Provide hinged filter access doors with latches.

SECTION 26 05 00 - ELECTRICAL, PART 1

PART 1 - GENERAL

1.1 RELATED SECTIONS: 23 05 00 HVAC, 08 80 00 Glazing.

1.2 SUBMITTALS

Submit product data and complete breaker schedule for switchboard MSB.

Submit UL 891 listing documentation for the switchboard.

1.3 CODES

Comply with NEC 2023, UL 891, and local amendments.

SECTION 26 05 00 - ELECTRICAL, 2.01 SWITCHBOARD MSB

2.01 SWITCHBOARD MSB

Type: service entrance switchboard, front access only.

Listing: UL 891 listed.

Voltage: 480Y/277V, 3 phase, 4 wire.

Short circuit rating: 65,000 AIC.

Bus: copper, tin plated.

Main device: 1600 A frame, solid state trip.

The switchboard shall include a full height ground bus.

Submit product data and complete breaker schedule with the submittal.

SECTION 26 05 00 - ELECTRICAL, COORDINATION

2.02 COORDINATION

Verify utility service point location with the serving utility.

Coordinate switchboard footprint with the mechanical room layout.

2.03 SEISMIC RESTRAINT

Provide seismic restraint in accordance with the structural drawings.

2.04 ACCESS

Maintain NEC working clearances in front of the switchboard.

Coordinate conduit entry points with the switchboard shop drawings.

SECTION 26 05 00 - ELECTRICAL, PART 3

PART 3 - EXECUTION

3.1 INSTALLATION

Install switchboard on 4 inch housekeeping pad.

Coordinate with utility for service entrance.

3.2 TESTING

Megger test all feeders before energization.

Torque all bus connections to manufacturer values.

Provide test reports to the engineer of record.

SECTION 08 80 00 - GLAZING, PART 1

PART 1 - GENERAL

1.1 RELATED SECTIONS: 23 05 00 HVAC, 26 05 00 Electrical.

1.2 SUBMITTALS

Product data for all glass types and framing systems.

Certification: IGCC certified insulating glass units.

Test report: ASTM E2190 seal durability test report required.

Acoustic data: STC test reports for acoustic assemblies.

1.3 QUALITY ASSURANCE

Manufacturer shall have 10 years experience in architectural glazing.

SECTION 08 80 00 - GLAZING, 2.01 PERFORMANCE

2.01 INSULATING GLASS UNITS

Construction: 1 inch overall thickness, dual seal.

U-factor: shall not exceed 0.28 for vision glass.

Solar Heat Gain Coefficient (SHGC): shall not exceed 0.25.

Low-E coating: on surface 2.

Spacer: warm edge, stainless steel.

Glass type: tempered on exterior lite where required by code.

2.02 FRAMING

Framing: thermally broken aluminum, finish Class I anodized.

SECTION 08 80 00 - GLAZING, 2.03 ACOUSTICS

2.03 ACOUSTIC PERFORMANCE

Vision glazing assembly shall provide STC 35 or higher.

Verify acoustic values with laboratory test reports.

2.04 GLAZING METHOD

Glazing method: structural silicone.

Glazing bite: 5/8 inch minimum.

SECTION 08 80 00 - GLAZING, CERTIFICATIONS

2.05 CERTIFICATIONS

Insulating glass units shall be IGCC certified.

Submit ASTM E2190 seal durability test report with the submittal.

Glass manufacturers shall be IGMA members.

2.06 WARRANTY

IGU seal warranty: 10 years minimum.

Anodized finish warranty: 5 years minimum.

SECTION 08 80 00 - GLAZING, PART 3 EXECUTION

PART 3 - EXECUTION

3.1 INSTALLATION

Set units level and plumb within 1/16 inch in 12 feet.

Provide setting blocks at quarter points.

3.2 CLEANING

Clean glass with manufacturer approved cleaners.

Remove labels immediately after installation.

3.3 PROTECTION

Protect finished work from construction damage.